

Algebra 2
Mrs. Britton
Section 8.3: Simplifying Rational Expressions #2

Name: _____

Date: _____

Simplify ****SHOW ALL YOUR WORK****

1. $\frac{15a}{25a^2}$

2. $\frac{21a^5b^4}{49a^2b^3}$

3. $\frac{a^2+8a+15}{a^2+7a+10}$

4. $\frac{a^2+4a-12}{a^2-5a+6}$

5. $\frac{a^2+9a+20}{a^2-25}$

6. $\frac{5a-15}{a^2+5a-24}$

$$7. \quad \frac{n^2 - 9n + 14}{n^2 - 4n - 21}$$

$$8. \quad \frac{x^2 - 10x + 9}{x^2 + 2x - 3}$$

$$9. \quad \frac{x^2 + x - 6}{x^2 - 5x + 6}$$

$$10. \quad \frac{x^2 - 8x + 7}{x^2 + 6x - 7}$$

$$11. \quad \frac{x^2 + 7x + 12}{x^2 + x - 6}$$

$$12. \quad \frac{x^2 + 7x - 8}{x^2 + 11x + 24}$$